Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-08-30-108** **Date: 26-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath and Drains at Park HMT Layout in Ward No.09 Vidyaranyapura.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)Ynk Zone/WO/113/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-07-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	149	201	11950	31.336	2622.3	2618.7	Not less than 1800Kg/m^3
2	399	148	199	11751	30.550	2599.7		
3	405	150	198	12029	31.685	2634.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	32.91	31.30	4.89	4.25	Shall not be more than 10% by mass
2	32.57	31.18	4.28		
3	32.45	31.29	3.59		

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Lab ID : **CP-2019-08-30-108** **Date: 26-07-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	203	
2	401	149	203	
3	399	152	201	
4	401	152	200	
5	401	150	203	
6	402	150	203	
7	400	153	202	
8	404	150	200	
9	403	152	201	
10	400	149	201	
11	399	151	201	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	401	150	199	
13	404	152	203	
14	401	152	201	
15	403	150	201	
16	401	152	203	
17	401	152	200	
18	400	149	200	
19	403	150	203	
20	404	152	203	
Average of 20	**401**	**151**	**202**	

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COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	152	61194	240.6	3.9	4.5
2	401	149	59721	266.3	4.5	
3	399	152	60572	298.0	4.9	
4	401	152	61130	288.1	4.7	
5	401	150	60119	278.4	4.6	
6	402	150	60178	260.8	4.3	
7	400	153	61115	276.2	4.5	
8	404	150	60722	262.4	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-08-30-108 **Date: 22/07/2019**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath and Drains at Park HMT Layout in Ward No.09 Vidyaranyapura.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)Ynk Zone/WO/113/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-19
Customer ID	:	Bed Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bed Concrete	M15	15/07/2019	22/07/2019	151.33 X 150.66 X 149.99	22799	**8.655**	280.0	12.3	12.4
2	Bed Concrete	M15	15/07/2019	22/07/2019	149.23 X 151.44 X 151.10	22599	**8.675**	285.2	12.6	
3	Bed Concrete	M15	15/07/2019	22/07/2019	149.39 X 150.31 X 151.08	22455	**8.661**	274.0	12.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-30-108** **Date: 13/08/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Footpath and Drains at Park HMT Layout in Ward No.09 Vidyaranyapura.

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : EE(Project)Ynk Zone/WO/113/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bed Concrete	M15	15/07/2019	13/08/2019	151.06 X 151.98 X 150.07	22959	**8.278**	407.7	17.8	17.7
2	Bed Concrete	M15	15/07/2019	13/08/2019	150.11 X 151.59 X 150.96	22755	**8.351**	398.9	17.5	
3	Bed Concrete	M15	15/07/2019	13/08/2019	149.93 X 149.45 X 151.84	22407	**8.883**	399.8	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-30-108** **Date: 07/08/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Footpath and Drains at Park HMT Layout in Ward No.09 Vidyaranyapura.

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : EE(Project)Ynk Zone/WO/113/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-19

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	31/07/2019	07/08/2019	150.58 X 149.53 X 149.98	22516	**8.655**	282.3	12.5	12.5
2	Coping Concrete	M15	31/07/2019	07/08/2019	150.04 X 149.23 X 151.62	22391	**8.675**	282.0	12.6	
3	Coping Concrete	M15	31/07/2019	07/08/2019	150.62 X 151.47 X 149.72	22815	**8.661**	281.6	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-30-108** **Date: 29/08/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Footpath and Drains at Park HMT Layout in Ward No.09 Vidyaranyapura.

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : EE(Project)Ynk Zone/WO/113/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-19

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	31/07/2019	29/08/2019	151.44 X 149.22 X 150.81	22598	**8.278**	386.6	17.1	17.3
2	Coping Concrete	M15	31/07/2019	29/08/2019	150.75 X 150.16 X 150.80	22637	**8.351**	400.0	17.7	
3	Coping Concrete	M15	31/07/2019	29/08/2019	149.04 X 151.12 X 151.01	22522	**8.883**	383.1	17.0	

Note:

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